

 CALIFORNIA AIR RESOURCES BOARD	ISUZU MOTORS LIMITED	EXECUTIVE ORDER U-R-006-0494 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2021	MSZXL02.2ZTB	2.179	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Control Module, Turbocharger, Electronic Direct Injection, Exhaust Gas Recirculation, Diesel Oxidation Catalyst			Generator Set	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 Final	STD	N/A	N/A	4.7	5.5	0.03	N/A	N/A	N/A
		CERT	--	--	3.7	0.3	0.03	--	--	--

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed on this 7th day of July 2020.



Allen Lyons, Chief
Emissions Certification and Compliance Division

ENGINE MODEL SUMMARY

ATTACHMENT 1 OF 1

CARB EO: U-R-006-0494
DATE: 06/10/20

ENGINE FAMILY	ENGINE CODE	ENGINE MODEL	BHP@RPM (SAE Gross)	FUEL RATE: mm3/stroke @peak HP	FUEL RATE: lbs/hr @peak HP	TORQUE@RPM lbs ft	FUEL RATE: mm3/stroke @peak TORQUE	FUEL RATE: lbs/hr @peak TORQUE
MSZXL02.2ZTB	4LE2TDZBA-01	BZ-4LE2T	40.2@1800 (30.0 kW)	36.0	14.4	117 @ 1800 (159 Nm)	36.0	14.4

ENGINE FAMILY	ENGINE CODE	ENGINE MODEL	EMISSION CONTROL DEVICE Per SAE J1930
MSZXL02.2ZTB	4LE2TDZBA-01	BZ-4LE2T	ECM, TC, DFI, EGR, DOC